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FIG. 1A

Mutations in

RAD53:

R70A

H88A

E117A

ScFkh1	76-VHGRND-X15-IDDDGPAK---	IVSRKHAIR-X08-EHQIF---	GRNCAKVNPREIP-X07-TVQSGCIIDIG-162
ScFkh2	83-VSIGRND-X18-VNDDGPAK---	WVRNHAIRK-X08-EHIF---	GRNCAKVNPREIP-X07-IRUSSCTLDIG-172
Ylr183c	118-ITVGRNS-Q---CDVACRNN---	FISRVHAGIT-X40-AYRLV---	PRFSGEKVKEIODE-GGFINFTDEEGTVMY-222
ScRad53 (FHA1)	66-WTGRNPA-----CDYEGNIS---	RISNAPCAL-X06-LENDI---	STNGTFLNCKRVE-KNSN-OLSCGDEITVG-133
SpCds1	60-WGGRHKS-----CEVJNG-----	PRVSNHETLY-X13-FLHDI---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-133
MtucEmbr	308-TRIGRHD-----NDIVDSAN---	VSRHHAIV-X06-VINDIR---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-372
MtucY04C12.31	228-VHGRAND-----NDIVPEVL---	ASRHAIV-X06-EIRDIR---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-291
Ydr200c	185-LKGRFVT-X17-QVRDNGNFD	SRVSRHAICUS-X08-YTRDK---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-273
Ylr283w	99-LKGRFVA X22 QVRDNGNFD	SRVSRHAICUS-X08-YTRDK---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-292
Yhr115c	189-IDIGRYTE-X09-PDOYHPVFKSV	ISRGHCTK-X07-FLDMX---	SSSGTFLNFERUA-KNSR-TIESNGDEIRIG-273
Ynl116w	295-LVIGRYTE-X09-PEOYHPVFKSV	SRHCTK-X07-YINDX---	SSSGTFLNFERUA-KNSR-TIESNGDEIRIG-379
SpDma1	60-ITVGRYTE-RYN-GGVSALVFRSV	SRHCTK-X06-YINDX---	SSSGTFLNFERUA-KNSR-TIESNGDEIRIG-137
MtucY10H4.20C	455-NVIGRQD-----AQTPPDTC---	VSRHCTK-X06-LEADN---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-518
AnaCYAD	24-FHIGRLE-----CMVPEFAG---	VSRHCTK-X07-LEADG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-89
ScFh11	300-AHIGRSENDFSHKVDVNGP-----	ISRHCTK-X08-ELSHI---	GRNCAKVNPREIP-X07-IRUSSCTLDIG-374
MtucY10H4.19C	77-TSAGRFD-----SDTPDDVT---	VSRHCTK-X06-NVDDG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-140
MtucY10H4.19C	83-VHIGRADD-----STVPTDDY---	ASTRHARS-X05-YVEDG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-147
ScDun1	56-TVIGRERS-----CDVILSE---	PDISTHAETH-X12-LINVDK---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-128
Ydr501w	102-LVIGRKS-V---CNVILPC---	RKNISRHAFIS-X38-FYKLAKEPLTS	QNTKSGHCKIQ X07 FVAKGTYTFP-210
AnaFrah	204-VHIGRND-RIP-PDVVSGFANSE	IVSRVHCTK-X06-YIEDG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-277
SynCYAA	29-WVGRSGD-----NDVPRDNC---	ISRNHAIQ-X07-LIIDG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-94
HsN1brin	24-YVGRGN-----CAITEN-----	DQSTRHAVIT-X17-TKDN---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-100
DmChk2	52-FVIGRGEANDLIL	FIANDPEKI-LTRISKVHCTK-X10-YIADI---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-129
HsChk2	113-YHIGRKSCEYCF	DEPLAKRDKRYTYSKHEHIF-X11-YIEDH---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-192
MmaNF	107-VHIGRNS-QGS--VDLSMGL---	SSFISRHCTK-X06-YIRCI---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-177
SynMCRB	61-YHIGRSS-----CDIQON---	PLVSOHCTK-X09-FIRDEG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-127
ScMek1	47-VHIGRNDK-E---CQVETN---	PSISVHCEN-X12-YVRDC---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-119
AtKAP	208-VHIGRVSP-----SDVAKDS---	EVSG-HAOT-X08-ELVDG---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-290
HsK1-67	27-CLVGRGIE-----CDIRIQ---	LP-VSKOHCIE-X06-ILNFS---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-91
CezK632.2	108-VHIGRKP-G---CDVPE---	HP-SISRHCTK-X13-HIFELC---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-182
Ygl081w	22-KVIGRSSFDONS	LCKPYNLXFDPEISRHCTK-X19-CIRDNKTA	GTNVSQGNDE-----IDKNGAFCH-109
ScRad53 (FHA2)	601-FHIGRSED-----CNCHIED---	NRSRHCTK-X16-GLDINCHT	CTNVSQGNDE-----IDKNGAFCH-681
Ylr016c	104-YHIGRMLG-X15-ADICPEET---	SSKHCCTK-X10-YVADD---	SSNGTFLNFERUA-KNSR-TIESNGDEIRIG-189

BOX A

BOX B

BOX C

BOX D